

1 STATE OF UTAH D.O.T.

2 SPECIFICATION: PTVAN 77.0S DATE: 8/ /98

3 SPECIFICATIONS FOR THE PURCHASE OF **TWO** PARATRANSIT VANS EQUIPPED WITH
4 WHEELCHAIR LIFT, SPACES FOR 1 WHEELCHAIR PASSENGER AND SEATING FOR 8
5 AMBULATORY PASSENGERS. TO BE FIBERGLASS AND /OR STEEL CONSTRUCTION BODY
6 ON 10,500 LB.(4763 Kilograms) G.V.W. CHASSIS.

7 APPLICATION

8 This vehicle will operate on elevations not less than 4,200 feet
9 (1,280 Meters) to not more than 10,000 feet (3048 Meters) above sea
10 level. Temperature will vary from below zero (0) degrees fahrenheit (-
11 17.8 degress celsius) during winter to above 100 degrees fahrenheit (37.8
12 degress celsius) in summer. Environmental conditions are harsh winters
13 producing sustained periods of snow, ice, strong winds and heavily salted
14 (repetitive) road surfaces. Summers are hot and dry with occasional
15 periods of slight to heavy rain and hail, accompanied with thunder,
16 lightning and driven by winds ranging from low velocity to 90+ MPH (145
17 Kph) gusts.

18 It is intended to purchase a vehicle capable of serving dependably
19 in this environment, from a manufacturer known for its successful
20 experience and production of the size and type vehicle specified and for
21 the application intended.

22 GENERAL SPECIFICATIONS

23 The van is to be a new unit of current model. The equipment is to
24 meet the following minimum specifications, but is not limited as to
25 features furnished by the manufacturer. The equipment is to have all
26 standard features unless otherwise stated in detail specifications below.
27 The equipment is to be delivered assembled, serviced, tested and ready
28 to operate. All fluids are to be at operating levels and unit to have
29 a minimum of 10 gallons (37.85 litres) of fuel.

30 Vehicle and all components to be American Made and assembled in
31 America as defined by the Transportation Assistance Act of 1982, as
32 amended, and shall comply with Federal Motor Vehicle Safety Standards
33 (FMVSS) and applicable Utah Department of Transportation safety
34 standards. Features provided specifically for persons with disability
35 will comply with requirements of the Americans With Disabilities Act of
36 1990, as amended.

37 Contract award is dependent upon proof from the manufacturer(s) that
38 the vehicle finished product (as described within this specification)
39 will be constructed with American Made Materials (60% as a minimum) and
40 assembly of this specified vehicle must take place in the United States
41 of America (USA). Acceptable documentation of American Made is a listing
42 of the specified vehicle components and sub-components, showing origin

of manufacture and cost. The listing is considered complete when domestic cost of material with respect to the total cost of the finished ready-to-serve, as-per-specification vehicle equals 60 percent or more. Assembly location must also be designated. Complete (100%) assembly is restricted to the USA.

In addition, prior to contract award, the Bidder will supply a manufacturer(s) self-certification that the vehicle specified for construction within this document will comply with all applicable Federal Motor Vehicle Safety Standards (FMVSS) required by law.

DETAIL SPECIFICATIONS PTVAN 77.0S

Engine	Gasoline engine, V-8 type, 7.5 litre displacement or, V-10 Type, 6.8 litre displacement, minimum, complete with all standard engine accessories.
Electrical System	12-volt heavy duty electrical system, including 130 amp alternator and dual batteries, 885 cca total.
Transmission	Automatic transmission with heavy duty external oil cooler.
Front Axle	4,000 lb.(1814k) rating with dual action shock absorbers.
Rear Axle	7,400 lb.(3357k) rating, dual wheel, with dual action shock absorbers. Gear ratio to match power train, approximately 4.10:1.
Brakes	Power brake system with disc brakes on front and drum brakes on rear.
Wheelbase	138 inch,(3.51m) single wheel axle on front, and single dual wheel axle on rear.
Steering	Power steering with tilt wheel.
Tires	Seven LT steel-belted radial tires. Size 225/75R x15D all-season matched to manufacturer's GVWR and gear ratio requirements. Spare wheel and tire to be securely attached to vehicle underbody at rear. Standard wheel cover (hub cap) to be placed on each vehicle wheel, except spare.
Fuel Tank	Capacity 38-40 gallon (143.8-151.4 litre) single tank. Multiple tanks are unacceptable.
Cab and Accessories	Special Paratransit package including: Dual 2-speed wipers with delay mode and washers. Right and left outside mirrors.

1		Right and left convex mirrors mounted in
2		combination with outside transit mirrors.
3		Interior safety glass mirror (transit type) to
4		allow driver full view of passengers when seated in
5		driver's seat.
6		Driver's sun visor.
7		Heater, defroster and air conditioner for cab area.
8		Driver three point seat belt.
9		Deluxe captain's driver's seat, four corner
10		anchored to floor, cloth covered with coordinated
11		color upholstery..
12		Single pedestal seat type not acceptable.
13		Rear window view lens (Fencel or equal).
14		Attach to inside of rear window to allow driver
15		maximum view immediately behind vehicle.
16	Controls	Driver's console to be located in front of driver and
17		include:
18		Heat and air conditioning controls for cab and
19		body.
20		Control for all interior lights.
21		AM/FM Compact Disc (CD) system and controls.
22		System to have 2 front and 2 rear speakers mounted
23		overhead in corners.
24		Factory installed cruise control.
25		All standard engine and exterior light controls.
26		Electric passenger door control.
27	Instruments	Fuel gauge; warning lights for engine temperature, oil
28		pressure, brake system; speedometer, warning light and
29		buzzer for open emergency exits.
30	Safety	Five lb. dry chemical fire extinguisher, 16 unit first
31		aid kit, triangle warning reflectors in container (to
32		meet FMVSS 125), biomedical kit, all to be mounted in
33		driver overhed emergency stow
34		enclosure.(Refer to attached floor plan.)
35		Two webbing (safety belt) cutter; single hand grip type.
36		Back-up alarm, dual turn signals and hazard warning
37		flashers. Jack, Lug Wrench, and Jack Handle to be
38		secured to stowage enclosure inside.
39		Fully body length grab bars mounted on ceiling, left and
40		right above isle passenger seating at convenient height
41		for standing passenger grasp.
42		Visual and audible alarm activated when wheelchair door
43		is open and transmission is in gear other than park.
44		Switch interlock wheelchair lift to disallow its
45		operation when transmission is in any gear except Park .

BODY SPECIFICATIONS PTVAN 77.0S

Construction	Body shall be steel cage/fiberglass or steel construction and meet FMVSS 220 and 221 requirements as a minimum. Overall vehicle length not to exceed 22'0" (6.7 meters). Interior ceiling and walls shall be FRP, honeycomb construction or steel and fiberglass equal. Floor to be covered with R.C.A. Light Red/white speckle rubber mat. Steps ribbed and white nosed. All interior walking surfaces (including step wells and wheelchair securement area) to be slip resistant, in accordance with ADA Specifications. Body shall be insulated against weather and road noise.
Dimension	Inside height 75 inches (1.95m) minimum in center isle. Outside width 85 inches (2.21m).
Doors	Standard driver entrance door on left side. Electrically operated, bi-fold, walk-in passenger door at right front, not less than 32 x 75 inch (0.8X1.95m) minimum clear opening. Wheelchair entry double door, on right side rear between wheel well and rear side edge, shall be manually operated with automatic hold open rams and a handle key lock. Door opening shall be ADA approved with dimension of a minimum of 68 inch (1.77m) overhead clearance between lift platform at up position and top of the door. The width opening shall be 44 inch (1.14m) minimum. Wheelchair entry equipped with Ricon ADA specified S2000 or approved equal, electric wheelchair lift with 32 inch (0.8m) wide platform, 48.0 inch (1.25m) lift total height and two passenger handrails, parallel mounted at least 30 inches (0.78m), but not more than 38 inches (0.98m), above lift platform and capable of supporting 100 lbs. (45.4kg) each; and also equipped with user restraint between handrails. Lift capacity 800 lbs. (362.9kg) working and 1200 lbs. (544.3kg) static rating. (Note: lift to operate without engine running.)
Windows	Windows to be tinted, in accordance with U.S. D.O.T. standards. Stick on or spray on tinting material is not acceptable. Minimum 3 windows on right and 5 on left. To be transit type approximately 2 ft.(0.62m) x 3ft. (0.94m). There shall be three push out emergency exit windows located one on each side and in rear. Entry doors shall have windows. There shall be fixed windows behind right windshield post and in entry door bulkhead to give driver clear right hand vision. Roof to have Transpec or approved equal ventilator in

1 rear, center roof mounted, to serve as ventilator and
2 emergency exit.

3 BODY SPECIFICATIONS PTVAN 77.0S

4 Seating To have 1 forward facing wheelchair position equipped
5 with "Q" Straint (four point tie down) mobility aid and
6 passenger restraint systems, or approved equal,
7 installed at each wheelchair position in accord with
8 attached floor plan, and ADA specifications. Securement
9 floor tracks are to be flush floor mounted. There shall
10 be 3 two-position bench type forward facing seats at
11 left side near mid-body, extending to rear wheelchair
12 position. Two single position seats to be placed
13 between wheelchair rear position and storage cabinet,
14 right hand position. Angle grab bars (padded) required
15 on seats top aisle sides. All passenger seating to be
16 heavy duty red vinyl/cloth combination upholstery with
17 seat belts. Seat belts retained such that when not in
18 use, belts will not lay on floor or poised as to be
19 hazardous or cause injury. Seats to have a minimum knee
20 space of 10.5"(0.27m). Place double jump seat at
21 wheelchair position and and single jump seat at position
22 adjacent to lift, complete with seat belts.
23 SEE ATTACHED DRAWING FOR SEATING ARRANGEMENT.

24 Storage To have 3 enclosed storage areas, two driver overhead
25 and one floor mounted, with locking doors. Driver
26 overhead to contain 5 lb.(2.3k) fire extinguisher,
27 triangular flare kit 16 piece first aid kit and
28 bieomedical kit, all secured to enclosure deck. Floor
29 mounted enclosure to extend from floor to height of 48
30 inches (1.22m) having interior with of 8 inches
31 (20.32cm) and unit width from right bus wall, adjacent
32 to stairwell, to stanchion. Cover storage areas with
33 color-coordinated fabric to prevent contact injury.
34 Storage doors and wheelchair lift door locks to be keyed
35 same (one key fits all).
36 SEE ATTACHED DRAWING FOR LOCATION

37 Temperature Passenger area to have at least 50,000 BTU hot water
38 heater and 30,000 BTU air conditioner, minimum. Place
39 acclimatized air outlets above rear seating in roof.

40 Miscellaneous Step well to be lighted. Step well to have grab rails,
41 right and left. To have stanchions and modesty panels
42 on left side of step well. To have light over each seat
43 and dome light over both passenger entrances. Lift door
44 entrance to have exterior lamp mounted center over and
45 under entrance.
46 All items of hardware in passenger compartment that

1 could cause injury shall be covered with color-
2 coordinated energy absorbing material.
3 To have mud flaps on all wheel wells. Exit exhaust
4 tailpipe at vehicle rear beyond outer periphery of
5 vehicle body. Tailpipe not to be horizontally lower
6 than vehicle body lowest point. Priority seating
7 signage placed at front seating (2 position bench)
8 immediately behind driver (nearest position, left or
9 right). Sign each wheelchair securement position,
10 designating them as such. Signs must comply with ADA
11 specification, e.g., color, size, location, etc.

12 Color Exterior to be white with light/dark red striping.
13 Seat covering to be dark red. ABS Floor matting to be
14 light red and white speckle. Corresponding heavy duty
15 floor mat at driver position.

16 Warranty Body shall have 75,000 mile (120,750k), five-year
17 warranty. Chassis and power train shall have standard
18 manufacturer warranty.

19 INSTRUCTIONS TO BIDDERS

20 Bidders must submit a detailed quotation and specification sheets.
21 There must be a response to each item in the U.D.O.T. specifications
22 above. Bids submitted without this information may be rejected as non-
23 responsive.

24 Bidders must furnish a statement that the equipment proposed meets
25 all current Utah State safety regulations. Bids received without
26 executed signature of the attached Buy America certification will be
27 rejected.

28 DELIVERY

29 Delivery must include dealer's invoice, a copy of warranty and
30 operators manual for each unit. Delivery must include MSO, application
31 for title, odometer statement, safety inspection and emissions test for
32 each unit, and vehicle listing of components and subcomponents showing
33 individual cost and percentage made in America. Owner to be shown as
34 Bethphage Mission West, Inc., 1470 North 200 West, Nephi, Utah 84648.
35 First lien holder to be State of Utah D.O.T., Program Development, 4501
36 South Constitution Blvd., Salt Lake City, Utah 84119-5998. Contact
37 Glenda Seelos, 801-965-4141, for information about registration.
38 Invoices will not be approved for payment until all of the required
39 documentation has been received.

40 Delivery is to be F.O.B. Utah D.O.T., Central Shops
41 4501 South 2700 West
42 Salt Lake City, Utah 84119

For information about delivery or specifications, contact Tumau La'Ulu,
Phone 801-964-4591, FAX 801-965-4551 or US Mail to UDOT, Program
Development, Box 143600, Salt Lake City, Utah 84114-3600.